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## NOTICE OF ALLOWANCE AND FEE(S) DUE

26710

7590

03/23/2009

QUARLES & BRADY LLP 411 E. WISCONSIN AVENUE SUITE 2040 MILWAUKEE, WI 53202-4497 EXAMINER

CHAWLA, JYOTI

ART UNIT PAPER NUMBER

1794

DATE MAILED: 03/23/2009

١	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	09/525.892	03/15/2000	Alfonso Navarro	134421.98641	9509

TITLE OF INVENTION: METHOD OF AERATING YEAST PRIOR TO PITCHING

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$0	\$1510	06/23/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

maintenance fee notifica	ed below or directed off tions. ENCE ADDRESS (Note: Use Bl						correspondence address as rate "FEE ADDRESS" for r domestic mailings of the
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QUARLES & 411 E. WISCON SUITE 2040	ISIN AVENUE	I he Stat addı tran	reby certify that thes Postal Service v	is Fee(	s) Transmittal is being	deposited with the United to class mail in an envelope above, or being facsimile ate indicated below.	
MILWAUKEE,	WI 53202-4497						(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
09/525,892	03/15/2000	•	Alfonso Navarro			134421.98641	9509
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EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
CHAWL	•	1794	426-062000				
1. Change of correspond CFR 1.363).		`	2. For printing on the patent front page, list  (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,  (2) the name of a single firm (having as a member a 2				
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"Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer			registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is				
Number is required.			listed, no name will be				
			THE PATENT (print or type data will appear on the p	*	ee is id	lentified below the do	ocument has been filed for
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(A) NAME OF ASSI	GNEE		(B) RESIDENCE: (CITY	and STATE OR C	COUNT	TRY)	
Please check the appropr	riate assignee category or	categories (will not be pa	rinted on the patent): $\Box$	Individual 🖵 Co	orporati	on or other private gro	oup entity 🚨 Government
4a. The following fee(s)	are submitted:	4	b. Payment of Fee(s): ( <b>Ple</b> a	se first reapply ar	1v prev	iously paid issue fee s	shown above)
☐ Issue Fee			A check is enclosed.				
☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			Payment by credit card. Form PTO-2038 is attached.  The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
			overpayment, to Depo	sit Account Number	er	(enclose a	n extra copy of this form).
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NOTE: The Issue Fee an	d Publication Fee (if req	uired) will not be accepte	d from anyone other than t				e assignee or other party in
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This collection of inform	nation is required by 37 C	FR 1.311. The information	on is required to obtain or r	etain a benefit by t	he pub	lic which is to file (and	by the USPTO to process)
an application. Confiden submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this bu. 7irginia 22313-1450. DC 113-1450.	U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the ONOT SEND FEES OR	1.14. This collection is est depending upon the individual to the control of the complete that the complete the complete complete the complete complete complete the complete complete complete complete complete complete control con	imated to take 12 i idual case. Any co er, U.S. Patent and D THIS ADDRESS	minutes omment Traden S. SENI	s to complete, including s on the amount of tirn nark Office, U.S. Depa D TO: Commissioner f	g gathering, preparing, and ne you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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QUARLES & B	RADY LLP	CHAWL	А, ЈҮОТІ	
411 E. WISCONS	SIN AVENUE	ART UNIT	PAPER NUMBER	
SUITE 2040 MILWAUKEE, WI 53202-4497			1794 DATE MAILED: 03/23/200	9

# **Determination of Patent Term Extension under 35 U.S.C. 154 (b)**

(application filed after June 7, 1995 but prior to May 29, 2000)

The Patent Term Extension is 0 day(s). Any patent to issue from the above-identified application will include an indication of the 0 day extension on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	A 11 41 81	A P (t - )
	Application No.	Applicant(s)
Notice of Allowshills	09/525,892	NAVARRO ET AL.
Notice of Allowability	Examiner	Art Unit
	JYOTI CHAWLA	1794
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate communication is sometimes.	n this application. If not included unication will be mailed in due course. <b>THIS</b>
1. X This communication is responsive to <u>response dated 1/5/0</u>	<u>9</u> .	
2. ☑ The allowed claim(s) is/are <u>4,17,19 and 21-24</u> .		
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority ur</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> <li>2.  Certified copies of the priority documents have</li> </ul>	e been received.	
3. ☐ Copies of the certified copies of the priority do	• •	
International Bureau (PCT Rule 17.2(a)).	cuments have been receive	u in this hational stage application from the
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4.   A SUBSTITUTE OATH OR DECLARATION must be subm	IENT of this application.	
INFORMAL PATENT APPLICATION (PTO-152) which give	es reason(s) why the oath o	r declaration is deficient.
5. $\square$ CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.	
(a) ☐ including changes required by the Notice of Draftspers		w ( PTO-948) attached
1)  hereto or 2)  to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's  Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1		
each sheet. Replacement sheet(s) should be labeled as such in t		
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT</li> </ol>		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 ☐ Notice of In	formal Patent Application (PTO-152)
<ol> <li>Notice of References Cited (PTO-692)</li> <li>Dotice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>		ummary (PTO-413),
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No.	/Mail Date Amendment/Comment
Paper No./Mail Date  4.  Examiner's Comment Regarding Requirement for Deposit		Statement of Reasons for Allowance
of Biological Material	9.	
		/Jennifer McNeil/ SPE 1794 03/16/2009

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### **REASONS FOR ALLOWANCE**

Applicant's submission filed on January 5, 2009 has been entered as compliant. Claims 25 and 26 have been cancelled and claims 4, 17, 19, 21-24 are pending and allowed in the current application.

#### Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

Methods of oxygenation of yeast slurry have been known in the art. Quain et al., of record provide a method of brewing beer in which they aerate yeast from previous fermentation. Quain teaches "oxygen (alone or as part of a gaseous mixture) is introduced into an aqueous suspension of yeast, the oxygen content of the suspension is monitored, and the rate at which oxygen is introduced is increased in such a manner as to maintain the concentration of oxygen in the suspension substantially constant, oxygenation continuing at least until such time as there is no longer any need to increase the rate of introduction of oxygen to maintain the same concentration of oxygen in the suspension" and also teaches maintain the concentration of oxygen in the suspension as substantially constant. In Quain, "brewers' yeast is treated with oxygen until the rate at which it rakes up oxygen reaches or at least closely approaches a maximum in the prevailing conditions." Applicant's response to Quain's liquor being brewers word for water has been found convincing and thus there is no disclosure or motivation to add an adjunct to the aerating yeast has been provided by Quain. Quain does not teach aeration of yeast in a wort free medium in the presence of liquid adjunct comprising cereal sugars and zinc, wherein the gas comprising oxygen is delivered above the maximum oxygen uptake rate of the yeast wherein the period of time is 8 hours up to about 21 hours as instantly claimed.

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Other close prior art Seebeck teaches of wine making and aerating yeast in grape juice in a continuous fermentation process. Lindberg teaches of addition of zinc however, none of references either alone or in combination provides specific suggestion or motivation to show a method of aeration of yeast slurry in a wort free medium with liquid adjunct comprising cereal sugars and zinc. The references also do not teach a process of enhancing the yeast fermentation of wort by oxygenation of yeast by a gas comprising oxygen, which is delivered above the maximum oxygen uptake rate of the yeast wherein the period of time is 8 hours up to about 21 hours as instantly claimed to oxygenate the yeast slurry in order to enhance the yeast fermentation of wort, as is instantly claimed. Thus, a method of enhancing wort fermentation by oxygenation of yeast slurry by the method recited in the instantly claimed invention was not known at the time of the invention and is free of the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JYOTI CHAWLA whose telephone number is (571)272-8212. The examiner can normally be reached on 9:00 am to 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jennifer McNeil can be reached on (571) 272-1540. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

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Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/JC/ Examiner Art Unit 1794

/JENNIFER MCNEIL/ Supervisory Patent Examiner, Art Unit 1794